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In replying please address:



25X1

April 17, 1959

Dear Sir:

In accordance with a discussion with your technical representative on April 14, 1959, we hereby propose that the research under Task Order No. Z include further investigation of measures directed toward achieving total incineration of the last remnant of the paper charge in the experimental air-film-cooled-liner unit.

The recent effort under Task Order No. Z has been concerned with the development of an experimental specialized incinerator with a stainless steel air-film-cooled liner. The research has progressed to the stage where the experimental unit functions generally satisfactorily, and a 200-lb-per-hr normal burning rate and a 500-lb-per-hr emergency burning rate have been achieved. In a recent demonstration of the experimental incinerator, it was noted that, at the conclusion of the run, there was a fraction of 1 per cent of the charge that was incompletely incinerated. Your technical representative indicated that this condition was undesirable, and suggested that consideration should be given to additional research directed toward eliminating the small amount of remaining unburned material. The proposed program of additional research described below would be aimed toward achieving this objective.

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The proposed effort would be concentrated initially on the generation of ideas for solving this problem. Currently, there are two potentially applicable measures which merit investigation. The use of a grid inserted near the bottom of the burning chamber so as to isolate the residual pieces of paper from the cooling influence of the air-cooled bottom might be effective. Also, the redistribution and/or the increase of combustion air near the bottom of the burning chamber might result in total incineration of the pieces of paper that currently appear to collect in a relatively quiescent zone of the experimental unit. These and other modifications which appeared to be promising would be evaluated by means of burning experiments. If as expected, the results of this additional research are favorable, then the modifications which are mutually considered to be desirable would be incorporated in the design of the experimental incinerator.

Accordingly, it is hereby proposed that Task Order No. 2 be amended to increase the estimated appropriation by \$3,003. An additional research period beyond June 30, 1959, is not required for this study; since the research proposed above apparently falls within the existing scope of the research, additional fixed fee is not requested for this study. A general breakdown of the estimated appropriation increase is attached.

Of course, the proposed amendment would be consistent with our current contractual arrangements. Further, liaison with your technical representatives would be maintained, and, at the conclusion of the research period, a summary report would be submitted, as outlined in our proposal dated September 26, 1958.

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We shall appreciate your cooperation in arranging for this amendment as quickly as possible. If you should need any additional information, please do not hesitate to call us. Inquiries of a contractual nature may be directed to

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Very truly yours,

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Vice President

ENC:mlm

In Duplicate

~~CONFIDENTIAL~~

                     of the U. S. Government.  
 For additional research on "The Development of a Specialized  
 Paper-Burning Incinerator".

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Based upon a period-basis Contract for a research period extending June 30, 1959.

(Including time for submission of all reports. The proposed contract will not provide for earlier conclusion of the research.)

### ESTIMATED COSTS

We expect that the cost of this research for the period indicated above may be distributed approximately as set forth hereon, subject to the understanding that this allocation is merely an estimate, and actual costs incurred may vary from the categories shown. We have determined that these estimates are reasonable and consistent with           's established policies in its research for the various Government agencies, which policies are briefly discussed below and will be followed in determination of our actual costs hereunder.

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#### Materials & Supplies, etc.

\$ 75

(Including any equipment which may be purchased as necessary in performance of the research. Charges of \$25 or less are excluded from this item.)

#### Use of Equipment and Technical Services, Travel, and Misc.

\$ 400

(Including applicable costs of technical research and service divisions, and use of technical equipment, except that any undistributed balances of these accounts will be included in overhead. Cost of travel includes reasonable actual subsistence expenses and the actual cost of transportation. An allowance of up to 8¢ per mile for all necessary travel by privately owned conveyance is included in lieu of the cost of such travel.)

#### Salaries & Wages

(Including our predetermined accrual for vacation, holiday, and sick-leave pay, pensions, and social security.)

Type of Employee	No. of Man-Months	Estimated Cost
Supervision	1/4	\$255
Research Engineers	1/4	925
Lab. Assistants	1	400
Steno., Clerical, Shop & Photo., etc.	Nominal	Nominal
Total Salaries & Wages		

\$1,580

#### Overhead

60 per cent of salaries and wages, as they are defined above. Provisional monthly reimbursement will be at the rate of 60 per cent of salaries and wages, as so defined, or at such other provisional rate as may from time to time be mutually agreed upon with the Government's audit representatives. This is a provisional rate for current reimbursement, which we have arrived at by negotiation with Government representatives, and it will be subject to retroactive revision to the "actual" rate agreed upon with them for each calendar year following a detailed audit for that year. The item of overhead includes general research, charges of \$25 or less for materials and supplies, and other categories of costs we customarily include in our overhead account. Cash discounts on all purchases will be credited to overhead, instead of to the amount of the purchase. Scrap of appreciable value will be credited directly to the project. All other scrap will be credited to the overhead account, in which the Government participates.)

\$ 948

Total Estimated Cost

\$3,003

Fixed Fee

\$3,003

\*Please let us have your acceptance in our hands by May 14, 1959. Contract Price  
 Unless we extend the time, your acceptance after that date will be subject to agreement.

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